PCT

REC'D 27 APR 2000

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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| (PCT | Article | 36 | and | Rule | 70) |
|------|---------|-----------|-----|------|-----|
|------|---------|-----------|-----|------|-----|

| Applicant's or agent's file reference | FOR FURTHER ACTION | | on of Transmittal of International Examination Report (Form PCT/IPEA/416) |
|--|--|------------------|---|
| B0801/7101WO International application No. | International filing date (day/mor | | Priority date (day/month/year) |
| | | • , | 24 April 1998 (24.04.1998) |
| PCT/US99/08502 International Patent Classification (IPC) | 23 April 1999 (23.04.1999) or national classification and IPC | <u> </u> | 24 April 1996 (24.04.1996) |
| 530/300, 350; 514/2, 44; 536/23.5, 24.3 | | 5, 15/85; C12Q | 1/68 and US Cl.: 435/6, 320.1, 325, 375; |
| Applicant | | | |
| THE BRIGHAM AND WOMEN'S HOS | SPITAL, INC. | | |
| Examining Authority and | nary examination report has been is transmitted to the applicant a | ccording to A | rticle 36. |
| 2. This REPORT consists of | a total of 5 sheets, including | this cover she | et. |
| This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of Sheets. | | | |
| 3. This report contains indica | tions relating to the following | items: | |
| N Day of | - . | | |
| I Basis of the repo | οπ | | |
| II Priority | | | |
| | | elty, inventive | e step and industrial applicability |
| IV 🔀 Lack of unity of | invention | | |
| , | nent under Article 35(2) with relations and explanations suppor | _ | = |
| VI Certain docume | nts cited | | |
| VII Certain defects | in the international application | | |
| VIII Certain observa | tions on the international applic | ation | |
| | | | |
| Date of submission of the demand | Date | of completion | of this report |
| 15 October 1999 (15.10.1999) | 04 A _I | oril 2000 (04.04 | .2000) |
| Name and mailing address of the IPEA/U | | rized officer | 000 |
| Commissioner of Patents and Trademark Box PCT | Thon | nas G. Larson, 1 | Ph.D. 1 (6: 1) |
| Washington, D.C. 20231 Facsimile No. (703) 305-3230 | | hone No. (703) | 308-0196 |

Form PCT/IPEA/409 (cover sheet)(July 1998)

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|----------------------|-----------------------|
| INTERNATIONAL PRELIM | RY EXAMINATION REPORT |

| International application No. PCT/US 28502 | |
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| | |

| I. | Basi | s f the report |
|-----|-------------|---|
| 1. | With | regard to the elements of the international application:* |
| | \boxtimes | the international application as originally filed. |
| | \boxtimes | the description: |
| | | pages 1-56 as originally filed |
| | | pages NONE , filed with the demand pages NONE , filed with the letter of |
| | ∇Z | |
| | | the claims: pages 57-68 , as originally filed |
| | | pages NONE, as amended (together with any statement) under Article 19 |
| | | pages NONE, filed with the demand |
| | _ | pages NONE, filed with the letter of |
| | \boxtimes | the drawings: |
| | | pages 1-3 , as originally filed |
| | | pages NONE , filed with the demand pages NONE , filed with the letter of |
| | \square | the sequence listing part of the description: |
| | | pages 1-17 , as originally filed |
| | | pages NONE , filed with the demand |
| | | pages NONE , filed with the letter of |
| 2. | With | n regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item. |
| | | the elements were available or furnished to this Authority in the following language which is: |
| | | the language of a translation furnished for the purposes of international search (under Rule23.1(b)). |
| | Ш | the language of publication of the international application (under Rule 48.3(b)). |
| | | the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3). |
| 3. | | national preliminary examination was carried out on the basis of the sequence listing: |
| | \boxtimes | contained in the international application in printed form. |
| | \boxtimes | filed together with the international application in computer readable form. |
| | | furnished subsequently to this Authority in written form. |
| | | furnished subsequently to this Authority in computer readable form. |
| | | The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. |
| | | The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. |
| 4. | | The amendments have resulted in the cancellation of |
| | | the description, pages |
| | | the claims, Nos. |
| | | the drawings, sheets/fig |
| 5 | | |
| 5. | ш | This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** |
| thi | s repo | cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). replacement sheet containing such amendments must be referred to under item 1 and annexed to this report. |
| | | |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

| Internation pplication No. | |
|----------------------------|---|
| PCT/US99/08502 | _ |
| | |

| III. N n | establishment of pini n with regard to novelty, inventive step and industrial applicability |
|-------------|---|
| | nestianishment of pin in what regard to be novel, to involve an inventive step (to be non-obvious), or industrially applicable have not been and will not be examined in respect of: |
| | the entire international application, |
| \boxtimes | claims Nos. <u>55-98</u> |
| becaus | |
| | the said international application, or the said claim Nos relate to the following subject matter which does not require international preliminary examination (specify): |
| | the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify): |
| | |
| | |
| | the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed. |
| | no international search report has been established for said claims Nos. 55-98 |
| 2. A m | neaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid uence listing to comply with the standard provided for in Annex C of the Administrative Instructions: |
| sequ | the written form has not been furnished or does not comply with the standard. |
| | the computer readable form has not been furnished or does not comply with the standard. |
| L | |

Form PCT/IPEA/409 (Box III) (July 1998)

| IV. Lack of unity of invention |
|---|
| 1. In response to the invitation to restrict or pay additional fees the applicant has: |
| restricted the claims. |
| paid additional fees. |
| paid additional fees under protest. |
| neither restricted nor paid additional fees. |
| 2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees. |
| 3. This Authority considers that the requirement of unity of invention is accordance with Rules 13.1, 13.2 and 13.3 is |
| complied with. |
| not complied with for the following reasons: |
| This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid. |
| Group 1, claim(s) 1-21, drawn to a nucleic acid encoding the CNREB-2 protein, the CNREB-2 protein, and a method of isolating a nucleic acid encoding the CNREB-2 protein. |
| Group II, claim(s) 22-38, drawn to methods of using a CNREB-1 inhibitor to decrease rennin expression in a cell or in a subject. |
| Group II, claim(s) 39-54, drawn to a method of using a CNREB-1 activator to increase CNREB-1 activity in a cell or in a subject. |
| The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Under Rule 13 there is unity of invention between an independent claim to a composition, and independent claim for preparing that composition, and an independent claim for using that composition. Group I contains an independent claim to the nucleic acid encoding the CNREB-2 protein and an independent claim to a method of isolating the nucleic acid encoding the CNREB-2 protein. Groups II and II are drawn to methods involving the CNREB-1 protein. The CNREB-1 and CNREB-2 proteins appear to be distinct compositions so that there is no common special technical feature linking the methods related to the CNREB-1 protein to the compositions related to the CNREB-2 protein. Therefore, the claims of groups I-III do not relate to a single inventive concept under PCT Rule 13. |
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| 4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report: |
| all parts. |
| the parts relating to claims Nos. 1-54 |
| K-N barra tollaring to a remine trace |

Form PCT/IPEA/409 (Box V) (July 1998)

| International | application | No. |
|---------------|-------------|-----|
| PCT/US | 8502 | |

| Inventive Step (IS) Inventive Step (IS) Industrial Applicability (IA) CITATIONS AND EXPLANATIONS (Rule ns 1-54 the criteria set out in PCT Article 33(2)-(ding the CNREB-2 protein, methods of inhibiting | Claims | NONE 1-54 NONE 1-54 | _YE _NC _YE _NC |
|--|-----------------------------|-------------------------|--------------------------|
| Inventive Step (IS) Industrial Applicability (IA) CITATIONS AND EXPLANATIONS (Rule ns 1-54 the criteria set out in PCT Article 33(2)-(| Claims Claims Claims Claims | NONE 1-54 NONE 1-54 | _NC _YE _NC |
| Industrial Applicability (IA) CITATIONS AND EXPLANATIONS (Rule ns 1-54 the criteria set out in PCT Article 33(2)-(| Claims Claims Claims | 1-54 NONE | _YE _NC |
| Industrial Applicability (IA) CITATIONS AND EXPLANATIONS (Rule ns 1-54 the criteria set out in PCT Article 33(2)-(| Claims Claims | NONE 1-54 | _ _NC |
| Industrial Applicability (IA) CITATIONS AND EXPLANATIONS (Rule ns 1-54 the criteria set out in PCT Article 33(2)-(| Claims Claims | NONE 1-54 | _ |
| CITATIONS AND EXPLANATIONS (Rule ns 1-54 the criteria set out in PCT Article 33(2)-(| | | VE |
| CITATIONS AND EXPLANATIONS (Rule ns 1-54 the criteria set out in PCT Article 33(2)-(| | | V F |
| ns 1-54 the criteria set out in PCT Article 33(2)-(| Claims | | _ |
| ns 1-54 the criteria set out in PCT Article 33(2)-(| | NONE | _N(|
| ns 1-54 meet the criteria set out in PCT Article 3: NEW CITATIONS | | lustrial applicability. | |
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